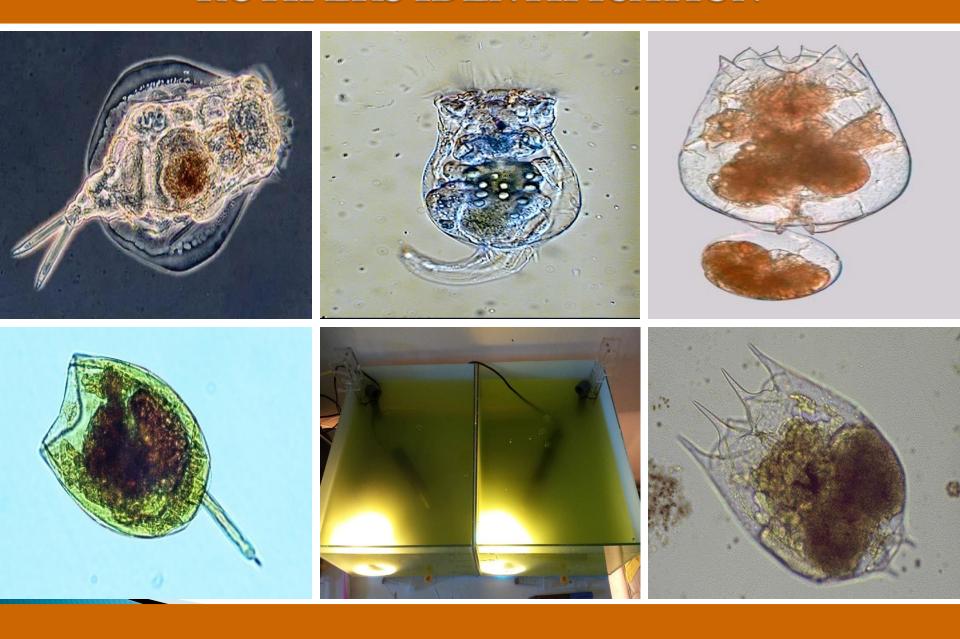
ROTIFERS CULTURE



ROTIFERS IDENTIFICATION



SYSTEMATICS

Phylum :Nemathelminthes

Class :Rotifera

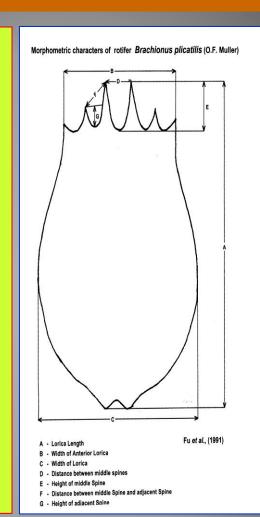
Order :Monogononta

Suborder : Ploima

Family : Brachionidae

Genus :Brachionus Pallas

Species : B. plicatilis





Six spines, Posterior margin broader Saw toothed, two posterior spines well developed. Sinus 'U' shaped. length: 110-221µm.

ROTIFER CULTURE

Stock Culture of rotifers

Rotifer samples will be collected from stagnant water bodies using mesh ranging from 50-100µm pore size.



Rotifers will be identified under a stereozoom microscope.

Adult rotifer along with eggs will be isolated and stocked in known volume of filtered water fed with *Chlorella* sp. @ 1 million cells/ml.





ROTIFER CULTURE

Stock Culture of rotifers

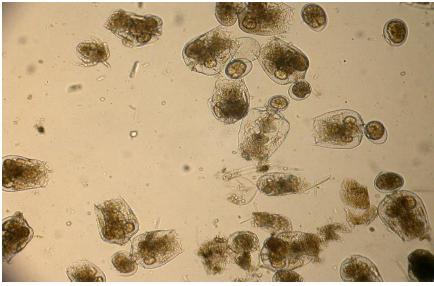
Chlorella density will be increased up to 3-4 million cells/ml.

When the density exceeds, about half of the quantity will be removed and dechlorinated tap water or distilled water will be added



Culture will be continued till the density reaches about 50 ind./ml.

Rotifers will be fed daily with fresh Chlorella

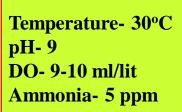


MASS CULTURE

Mass culture will be developed for Chlorella or Nannochloropsis



Rotifers will be inoculated @ 50 nos/ml. and vigorous aeration will be provided





After 7 days, density increase to 500 and above nos/ml.

Harvesting will be done after about a week when the, density is higher than 100 rotifers/ml.



Rotifers will be harvested by draining the water through a 80µm mesh.





MASS CULTURE

BATCH CULTURE

Algae under low density will be inoculated with low density of *Brachionus* and harvested once an the algal cells are consumed



SEMI-CONTINUOUS CULTURE

A certain volume of water is replaced by fresh quantity of water with or without algae



FEEDBACK CULTURE

Accumulated particulate matter and feces in the rotifer tanks will be decomposed in a separate tank using bacteria, while the decomposed matter is used as fertilizer for algal cells. After harvest of rotifers the entire batch is discarded and a fresh batch is initiated

